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Re-evaluation Decision RVD2016-09

Copper Pesticides Environmental Assessment of Wood Preservative, Material Preservative and Antifouling Uses

(publié aussi en français)

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Re-evaluation Decision

Cuprous oxide, copper hydroxide, metallic copper and copper present as mixed ethanolamine complexes are registered in Canada as wood preservatives (for example remedial), material preservatives (shingles and non-food contact surfaces) and/or antifouling coatings (such as boat/ship hulls/bottoms and aquaculture equipment). There are numerous copper-containing pesticide products that are currently registered in Canada under the authority of the *Pest Control Products Act*, including technical grade active ingredients, a manufacturing concentrate, commercial and domestic class end-use products.

After a re-evaluation of copper-containing pesticide products, Health Canada's Pest Management Regulatory Agency (PMRA), under the authority of the *Pest Control Products Act*, is granting continued registration of copper-containing pesticide products for sale and use in Canada. An evaluation of available scientific information found that copper-containing pesticide products do not present unacceptable risks to human health or the environment when used according to the requirements of continued registration listed below, which include revised label directions for all products. Appendix I lists the required label amendments, and Appendix II lists currently registered copper-containing pesticide products. No additional data are requested at this time.

Requirements for continued registration

- Additional health-related statements to meet current labelling standards
- Updated environmental hazards statements to meet current labelling standards

The PMRA's pesticide re-evaluation program considers potential risks, as well as value, of pesticide products to ensure they meet modern standards established to protect human health and the environment. Regulatory Directive DIR2001-03, *PMRA Re-evaluation Program*, presents the details of the re-evaluation activities and program structure. Re-evaluation draws on data from registrants, information from other regulatory agencies and any other relevant information available.

This re-evaluation decision[1] was proposed in the consultation document, Proposed Re-evaluation Decision PRVD2016-14, *Copper Pesticides Environmental Assessment of Wood Preservative, Material Preservative and Antifouling Uses*. No comments were received during the consultation process. Therefore, this decision is consistent with the proposed re-evaluation decision stated in PRVD2016-14. Please refer to both the Overview and more detailed Science Evaluation of PRVD2016-14 for the human health, environmental and value considerations underlying this re-evaluation decision.

A reference list for all data used as the basis for the re-evaluation decision is also included in PRVD2016-14.

[1] "Decision statement" as required by subsection 28(5) of the *Pest Control Products Act*.

To comply with this decision, the required label statements must be implemented on all products labels sold by registrants no later than 24 months after the publication date of this document. Registrants of the copper-containing pesticide products will be informed of the specific requirements affecting their product registration(s) and of the regulatory options available to them.

Other Information

Any person may file a notice of objection[2] regarding this decision on copper-containing pesticide products within 60 days from the date of publication of this Re-evaluation Decision. For more information regarding the basis for objecting (which must be based on scientific grounds), please refer to the Pesticides and Pest Management portion of Health Canada's website (Request a Reconsideration of Decision) or contact the PMRA's Pest Management Information Service.

[2] As per subsection 35(1) of the *Pest Control Products Act*

Appendix I Label Amendments for Copper Products Containing Cuprous Oxide, Copper Hydroxide, Metallic Copper and Copper Present as Mixed Copper Ethanolamine Complexes

The label amendments presented below do not include all label requirements for individual end-use products, such as first aid statements, disposal statements, precautionary statements and supplementary protective equipment. Information on labels of currently registered products should not be removed unless it contradicts the label statements below.

DOMESTIC END-USE PRODUCT LABELS

The labels of domestic class end-use products registered for use as antifoulants or remedial wood preservatives in Canada must be amended to include the following statements.

A. For products registered for use as antifouling paints/coatings:

I) The following statement must be included in a section entitled **DIRECTIONS FOR USE**:

> **DO NOT** place the painted parts in water after painting until the paint is fully cured (see recommended times on the label). It is recommended that you prevent paint chips or dust caused by removing paint from entering water.

II) The following statement must be included in a section entitled **ENVIRONMENTAL HAZARDS**.

> Toxic to aquatic organisms.

B. For products registered for use as remedial wood preservatives:

I) The following statement must be included in a section entitled **DIRECTIONS FOR USE**:

> **DO NOT** apply this product to wood that will be used in water.

II) The following statement must be included in a section entitled **ENVIRONMENTAL HAZARDS**:

> Toxic to aquatic organisms.

COMMERCIAL END-USE PRODUCT LABELS

The labels of commercial class end-use products registered for use as antifoulants, wood preservatives or material preservatives in Canada must be amended to include the following statements.

A. For all products:

I) The following statements must be included in a section entitled **DIRECTIONS FOR USE**:

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), or estuarine/marine habitats.

DO NOT discharge effluent containing this product or the biocide produced into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters unless the effluent has been detoxified by suitable means.

II) The following statement must be included in a section entitled **ENVIRONMENTAL HAZARDS**:

Toxic to aquatic organisms.

II) The following statement must be included in a section entitled **DISPOSAL**:

Canadian manufacturers should dispose of unwanted active ingredients and containers in accordance with municipal or provincial regulations. For additional details and clean-up of spills, contact the manufacturer or the provincial regulatory agency.

B. For products registered for use as antifouling paints/coatings:

The following statement must be included in a section entitled **DIRECTIONS FOR USE**:

DO NOT place the painted parts in water after painting until the paint is fully cured (see recommended times on the label). It is recommended that you prevent paint chips or dust caused by removing paint from entering water.

C. For products registered for use as heavy-duty wood preservatives:

The following statements must be included in a section entitled **DIRECTIONS FOR USE**:

Store treated lumber on a roofed drip pad until dripping has ceased. Slope lumber on the drip pad to expedite drainage and to ensure that no puddles remain on the surface of the wood. Manage drippage and other related wastes to prevent release in the environment.

Drip aprons must be roofed, paved and drained to prevent dilution and loss of treatment solution.

DO NOT expose treated lumber to rains immediately after treatment.

For further information on storage, handling, and disposal of treated wood, contact the manufacturer of this product or the provincial regulatory agency.

D. For products registered for use as remedial wood preservatives:

The following statement must be included in a section entitled **DIRECTIONS FOR USE**:

DO NOT apply this product to wood that will be used in water.

Appendix II Registered Cuprous Oxide, Copper Hydroxide, Metallic Copper and Copper Present as Mixed Copper Ethanolamine Complexes Products with Antifouling, Wood Preservative and/or Material Preservative Uses, as of 20 October 2015

Cuprous Oxide						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee Cu_2O (Elemental) (%)**	**Product Type**
21241	TECHNICAL ACTIVE	AMERICAN CHEMET CORPORATION*	TECHNICAL HIGH PERFORMANCE CHEM COPP	DUST OR POWDER	88	Not applicable
21242	TECHNICAL ACTIVE	AMERICAN CHEMET CORPORATION*	TECHNICAL LOLO TINT 97	DUST OR POWDER	88	Not applicable
21243	TECHNICAL ACTIVE	AMERICAN CHEMET CORPORATION*	TECHNICAL PURPLE COPP 97N	DUST OR POWDER	88	Not applicable
21244	TECHNICAL ACTIVE	AMERICAN CHEMET CORPORATION*	RED COPP 97N TECHNICAL	DUST OR POWDER	88	Not applicable
22088	TECHNICAL ACTIVE	NORDOX INDUSTRIES A S*	NORDOX CUPROUS OXIDE POWDER	DUST OR POWDER	97.0	Not applicable
22327	TECHNICAL ACTIVE	SCM METAL PRODUCTS, INC.*	SCM METAL PRODUCTS CUPROUS OXIDE	DUST OR POWDER	88.44	Not applicable
29178	TECHNICAL ACTIVE	AMERICAN CHEMET CORPORATION*	RED PREMIUM TECHNICAL	DUST OR POWDER	88	Not applicable
21351	DOMESTIC	INTERNATIONAL PAINT LLC.*	MICRON CSC (VARIOUS COLOURS)	SUSPENSION	36 (33)	Antifouling Coating
21352	DOMESTIC	INTERNATIONAL PAINT LLC.*	MICRON CSC (SHARK WHITE)	SUSPENSION	36 (33)	Antifouling Coating
21354	DOMESTIC	INTERNATIONAL PAINT LLC.*	BOTTOMKOTE XXX (VARIOUS COLOURS)	SUSPENSION	28.15 (25)	Antifouling Coating
21355	DOMESTIC	INTERNATIONAL PAINT LLC.*	BOTTOMKOTE (VARIOUS COLOURS)	SUSPENSION	44.14 (39.2)	Antifouling Coating
22022	DOMESTIC	INTERNATIONAL PAINT LLC.*	VC-OFFSHORE (BLUE, RED, BLACK)	SUSPENSION	41.66 (37.15)	Antifouling Coating
22718	DOMESTIC	INTERNATIONAL PAINT LLC.*	C-SHIELD (RED)	SOLUTION	10.13 (9)	Antifouling Coating
22727	DOMESTIC	INTERNATIONAL PAINT LLC.*	C-SWIFT (BLUE, RED, BLACK)	SUSPENSION	38%	Antifouling Coating
22728	DOMESTIC	INTERNATIONAL PAINT LLC.*	C-UNION JACK (RED)	SUSPENSION	(17.87)	Antifouling Coating
22820	DOMESTIC	INTERNATIONAL PAINT LLC.*	UNION JACK ANTIFOULING PAINT: RED NAU662	SUSPENSION	22%	Antifouling Coating
24389	DOMESTIC	INTERNATIONAL PAINT LLC.*	AQUARIUS (VARIOUS COLOURS)	SUSPENSION	49.73 (44.17)	Antifouling Coating
24392	DOMESTIC	INTERNATIONAL PAINT LLC.*	BOTTOMKOTE HS (VARIOUS COLOURS)	SOLUTION	42.67 (37.90)	Antifouling Coating
24393	DOMESTIC	INTERNATIONAL PAINT LLC.*	MICRON CSC EXTRA (VARIOUS COLOURS)	SUSPENSION	37.04 (32.09)	Antifouling Coating

Cuprous Oxide						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee Cu_2O (Elemental) (%)**	**Product Type**
24394	DOMESTIC	INTERNATIONAL PAINT LLC.*	ULTRA-KOTE EXTRA (RED, BLUE)	SOLUTION	72.18 (64.10)	Antifouling Coating
24395	DOMESTIC	INTERNATIONAL PAINT LLC.*	ULTRA-KOTE (RED, GREEN, BLUE, BLACK, BROWN)	SOLUTION	65.71 (58.36)	Antifouling Coating
26709	DOMESTIC	INTERNATIONAL PAINT LLC.*	BOTTOMKOTE ACT (VARIOUS COLOURS)	SOLUTION	41.97	Antifouling Coating
27574	DOMESTIC	INTERNATIONAL PAINT LLC.*	VINY-LUX (BLACK, GREEN, BLUE)	SUSPENSION	33.78 (30)	Antifouling Coating
27575	DOMESTIC	INTERNATIONAL PAINT LLC.*	VINY-LUX (RED)	SUSPENSION	42.79 (38)	Antifouling Coating
21378	COMMERCIAL	INTERNATIONAL PAINT LLC.*	INTERSPEED BLA110 PREMIUM RED (ZA463003)	SUSPENSION	23.65 (21.0)	Antifouling Coating
21379	COMMERCIAL	INTERNATIONAL PAINT LLC.*	UNION JACK BCA350 COPPER RED (ZA469005)	SUSPENSION	17.86	Antifouling Coating
21397	COMMERCIAL	INTERNATIONAL PAINT LLC.*	INTERCLENE BRA542 BLACK (ZA467003) & BRA540 RED (ZA463007)	SOLUTION	38.28 (34)	Antifouling Coating
21652	COMMERCIAL	INTERNATIONAL PAINT LLC.*	EPOXYCOP	SUSPENSION	37.3	Antifouling Coating
21656	COMMERCIAL	HEMPEL (CANADA) INC.*	HEMPEL'S ANTIFOULING OLYMPIC 7660-5111 RED	SUSPENSION	45.31 (40.24)	Antifouling Coating
21657	COMMERCIAL	HEMPEL (CANADA) INC.*	HEMPEL'S ANTIFOULING OLYMPIC 7660-5030 LIGHT RED	SUSPENSION	45.31 (40.24)	Antifouling Coating
21658	COMMERCIAL	HEMPEL (CANADA) INC.*	HEMPEL'S ANTIFOULING OLYMPIC 7660-1999 BLACK	SUSPENSION	45.31 (40.24)	Antifouling Coating
21840	COMMERCIAL	INTERNATIONAL PAINT LLC.*	WEST MARINE BOTTOMSHIELD ANTIFOULING BOTTOM PAINT (VARIOUS COLOURS)	SOLUTION	42.56 (37.8)	Antifouling Coating
21841	COMMERCIAL	INTERNATIONAL PAINT LLC.*	TARR & WONSON COPPER PAINT RED 503-C	SOLUTION	25.67 (22.8)	Antifouling Coating
21986	COMMERCIAL	FLEXABAR CORP.*	FLEXGARD XI WATERBASE PRESERVATIVE	EMULSIFIABLE CONCENTRATE OR EMULSION	24.64	Antifouling Coating
22717	COMMERCIAL	INTERNATIONAL PAINT LLC.*	INTERSPEED 640 ANTIFOULING SERIES (OCEAN GREEN, RED, BLACK, BLUE)	SOLUTION	42.79 (38)	Antifouling Coating
23511	COMMERCIAL	SOCIETE LAURENTIDE INC	ATLANTIC ANTIFOULING PAINT COPPER BOTTOM RED	SUSPENSION	8.78	Antifouling Coating
23511.01	COMMERCIAL	SOCIETE LAURENTIDE INC	MATCHLESS SUPER MARINE	SUSPENSION	8.78	Antifouling Coating

Cuprous Oxide						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee Cu_2O (Elemental) (%)**	**Product Type**
23803	COMMERCIAL	FLEXABAR CORP.*	FLEXGARD VI WATERBASE PRESERVATIVE	EMULSIFIABLE CONCENTRATE OR EMULSION	14.26	Antifouling Coating
24097	COMMERCIAL	KOP-COAT INC.*	WEST MARINE CPP! PLUS ABLATIVE ANTIFOULING PAINT (BLUE, RED, BLACK, GREEN)	SUSPENSION	44.0	Antifouling Coating
24390	COMMERCIAL	INTERNATIONAL PAINT LLC.*	INTERCLENE 140 BWA 360 ANTIFOULING RED	SOLUTION	38.2 (33.93)	Antifouling Coating
24391	COMMERCIAL	INTERNATIONAL PAINT LLC.*	INTERSPEED 6200NA BQA654 ANTIFOULING RED	SOLUTION	21.73	Antifouling Coating
24409	COMMERCIAL	FLEXDEL CORP	AQUAGARD WATERBASE ANTIFOULING BOTTOM BOAT PAINT	SUSPENSION	23.6	Antifouling Coating
25788	COMMERCIAL	JOTUN PAINTS INC.	ANTIFOULING SEAFORCE 200 AV (VARIOUS COLORS)	SUSPENSION	45.53	Antifouling Coating
25809	COMMERCIAL	ARCH WOOD PROTECTION CANADA CORP*	CHEMONITE WOOD PRESERVATIVE	SOLUTION	5.19	Heavy Duty Wood Preservative
26589	COMMERCIAL	PPG ARCHITECTURAL FINISHES INCORPORATED*	AMERCOAT ABC #4 ANTIFOULING PAINT	SUSPENSION	27.1	Antifouling Coating
26907	COMMERCIAL	SASOL WAX GMBH*	NETREX AF MICRO CRYSTALLINE WAX	EMULSIFIABLE CONCENTRATE OR EMULSION	17	Antifouling Coating
26991	COMMERCIAL	PPG ARCHITECTURAL FINISHES INCORPORATED*	AMERCOAT ABC #3 ANTIFOULING PAINT RED	SUSPENSION	42	Antifouling Coating
27098	COMMERCIAL	INTERNATIONAL PAINT LLC.*	INTERCLENE BRA 570 ANTIFOULING SERIES	SUSPENSION	37.2 (32.9)	Antifouling Coating
27277	COMMERCIAL	KOP-COAT INC.*	HORIZONS ABLATIVE ANTIFOULING BOTTOM PAINT	SUSPENSION	44.0	Antifouling Coating
27573	COMMERCIAL	INTERNATIONAL PAINT LLC.*	123 PAINT VINYL ANTIFOULING (ZA469033)	SUSPENSION	67.6 (60)	Antifouling Coating
28046	COMMERCIAL	IKO INDUSTRIES LTD*	AR GRANULES (ALGAE-RESISTANT ROOFING GRANULES)	GRANULAR	4.07	Material Preservative
31458	COMMERCIAL	FLEXDEL CORP	AQUAGARD WATERBASE ANTIFOULING RUBBER INFLATABLE BOAT PAINT	SUSPENSION	23.6	Antifouling Coating

Copper Hydroxide						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee (Elemental) (%)**	**Product Type**
24670	TECHNICAL ACTIVE	NUFARM AGRICULTURE INC.*	CHAMPION TECHNICAL	SOLID	57.3	Not applicable
27503	TECHNICAL ACTIVE	E.I. DU PONT CANADA COMPANY*	KOCIDE COPPER HYDROXIDE TECHNICAL	SOLID	61	Not applicable
30390	TECHNICAL ACTIVE	ALBAUGH INC.*	COPPER HYDROXIDE MUP	SOLID	60.6	Not applicable
31374	TECHNICAL ACTIVE	NUFARM AGRICULTURE INC.*	CHAMPION WET CAKE TECHNICAL	SOLID	32.5	Not applicable
29255	MANUFACTURING CONCENTRATE	SEPRO CORPORATION*	SPIN OUT 260 MANUFACTURING CONCENTRATE	SUSPENSION	12.8	Not applicable
27214	DOMESTIC	GENICS INC.*	GENICS POSTGUARD	SOLID	1.71	Remedial Wood Preservative
25580	COMMERCIAL	GENICS INC.*	COBRA (TM) ROD	SOLID	1.8	Remedial Wood Preservative
27553	COMMERCIAL	GENICS INC.*	COBRA (TM) CRUSH MDT WOOD PRESERVATIVE	SOLUBLE POWDER	6.1	Wood Preservative
31806	COMMERCIAL	GENICS INC.*	COBRA WRAP GEL	PASTE	2	Remedial Wood Preservative

Metallic Copper						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee (label) (%)**	**Product Type**
27903	TECHNICAL ACTIVE	ECKART GMBH	COPPER FLAKE TECHNICAL	DUST OR POWDER	99.1	Not applicable
31171	TECHNICAL ACTIVE	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	COPPER TGAI	SOLID	99.98	Not applicable
31751	TECHNICAL ACTIVE	ARCH WOOD PROTECTION CANADA CORP*	COPPER TECHNICAL FLAKE	SOLID	99.9	Not applicable
21372	DOMESTIC	INTERNATIONAL PAINT LLC.*	FIBREGLASS BOTTOMKOTE RACING BRONZE	SOLUTION	28	Antifouling Coating
22020	DOMESTIC	INTERNATIONAL PAINT LLC.*	VC 17M	SUSPENSION	20.25	Antifouling Coating
31172	COMMERCIAL	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	ANTIMICROBIAL COPPER ALLOYS GROUP I	SOLID	96.2	Sanitizer / Material Preservative

Metallic Copper						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee (label) (%)**	**Product Type**
31173	COMMERCIAL	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	ANTIMICROBIAL COPPER ALLOYS GROUP II	SOLID	91.3	Sanitizer / Material Preservative
31174	COMMERCIAL	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	ANTIMICROBIAL COPPER ALLOYS GROUP III	SOLID	82.6	Sanitizer / Material Preservative
31175	COMMERCIAL	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	ANTIMICROBIAL COPPER ALLOYS GROUP IV	SOLID	73.0	Sanitizer / Material Preservative
31176	COMMERCIAL	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	ANTIMICROBIAL COPPER ALLOYS GROUP V	SOLID	66.5	Sanitizer / Material Preservative
31177	COMMERCIAL	CANADIAN COPPER & BRASS DEVELOPMENT ASSOCIATION (CCBDA)*	ANTIMICROBIAL COPPER ALLOYS GROUP VI	SOLID	62.0	Sanitizer / Material Preservative
31963	COMMERCIAL	GLOBAL BRASS AND COPPER INC.	CUVERRO I	SOLID	66.5	Sanitizer / Material Preservative
31967	COMMERCIAL	GLOBAL BRASS AND COPPER INC.	CUVERRO III	SOLID	82.6	Sanitizer / Material Preservative
31974	COMMERCIAL	GLOBAL BRASS AND COPPER INC.	CUVERRO V	SOLID	91.3	Sanitizer / Material Preservative
31976	COMMERCIAL	GLOBAL BRASS AND COPPER INC.	CUVERRO VI	SOLID	62.0	Sanitizer / Material Preservative

Copper present as mixed copper ethanolamine complexes						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee (%)**	**Product Type**
27129	TECHNICAL ACTIVE	VIANCE LLC*	ACQ C2 TECHNICAL	SOLUTION	9	Not applicable
30771	TECHNICAL ACTIVE	TIMBER SPECIALTIES CO*	NW 100-Technical	SOLUTION	9	Not applicable
22083	COMMERCIAL	IBC MANUFACTURING COMPANY*	CURAP 20 WOOD PRESERVATIVE PASTE	PASTE	2	Remedial Wood Preservative
27026	COMMERCIAL	IBC MANUFACTURING COMPANY*	CURAP 20 PAK WOOD PRESERVATIVE WRAP	PASTE	1.60	Remedial Wood Preservative
27130	COMMERCIAL	VIANCE LLC*	ACQ 2102 WOOD PRESERVATIVE CONCENTRATE	SOLUTION	7.4	Heavy Duty Wood Preservative

Copper present as mixed copper ethanolamine complexes						
Registration Number	**Marketing Class**	**Registrant**	**Product Name**	**Formulation Type**	**Guarantee (%)**	**Product Type**
27131	COMMERCIAL	TIMBER SPECIALTIES CO*	NW 100 WOOD PRESERVATIVE CONCENTRATE	SOLUTION	7.4	Heavy Duty Wood Preservative
27132	COMMERCIAL	ARCH WOOD PROTECTION CANADA CORP*	WOLMAN NB	EMULSIFIABLE CONCENTRATE	9.25	Heavy Duty Wood Preservative
27621	COMMERCIAL	COPPER CARE WOOD PRESERVATIVES INC.*	CU-BOR REMEDIAL WOOD PRESERVATIVE	PASTE	2	Remedial Wood Preservative
28634	COMMERCIAL	TIMBER SPECIALTIES CO*	NW 100-C	SOLUTION	9	Heavy Duty Wood Preservative
28635	COMMERCIAL	VIANCE LLC*	ACQ-C2 EU	SOLUTION	9	Heavy Duty Wood Preservative
31020	COMMERCIAL	VIANCE LLC*	ACQ 1900 WOOD PRESERVATIVE CONCENTRATE	SOLUTION	7.4	Heavy Duty Wood Preservative
31160	COMMERCIAL	VIANCE LLC*	VIANCE CA-B	EMULSIFIABLE CONCENTRATE	9.25	Heavy Duty Wood Preservative